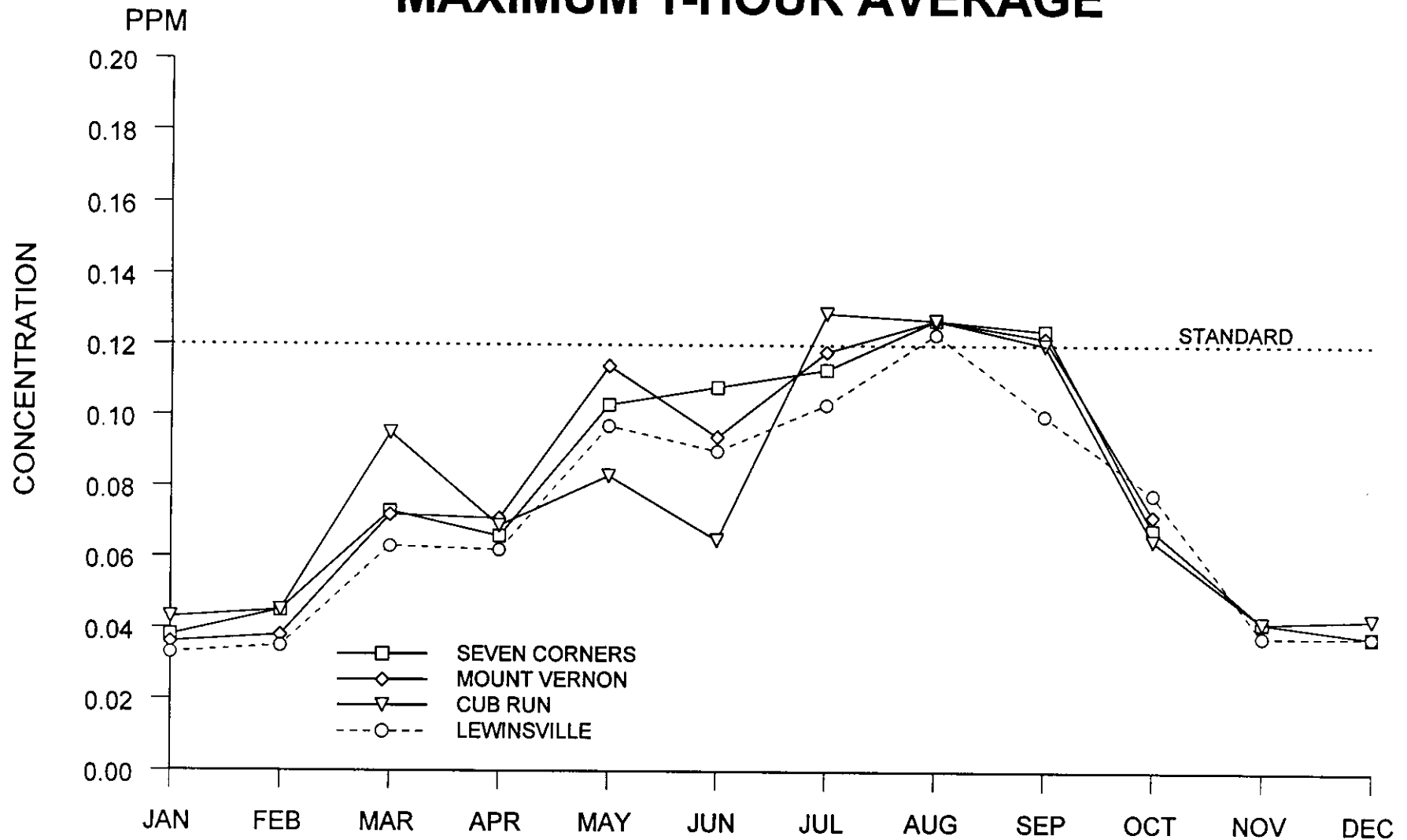


APPENDIX A

MONTHLY TREND GRAPHS

OZONE MAXIMUM 1-HOUR AVERAGE



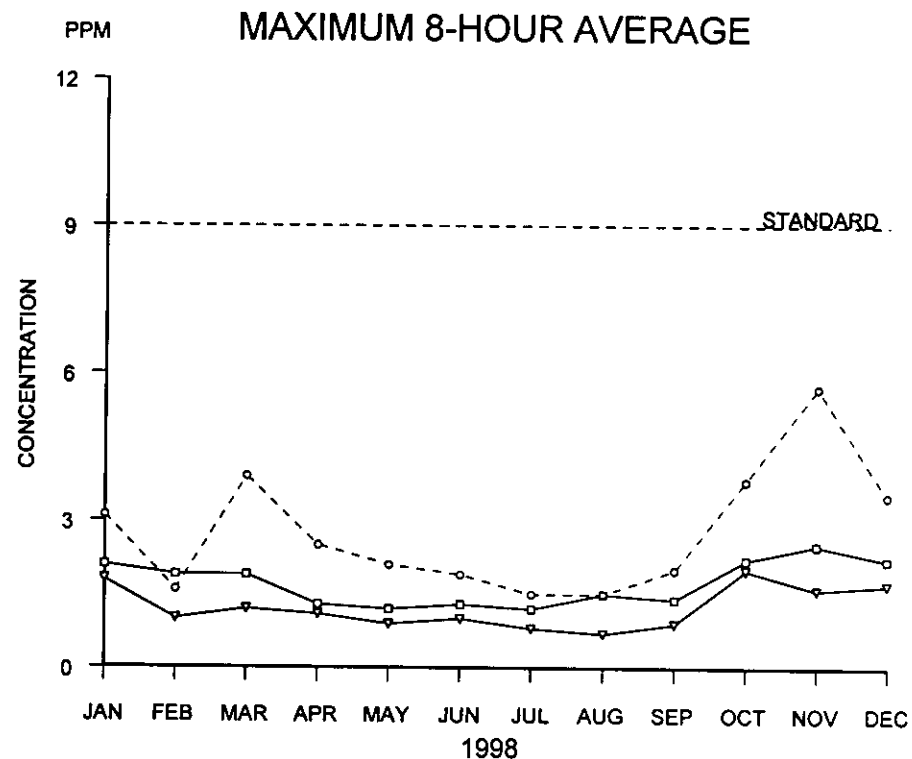
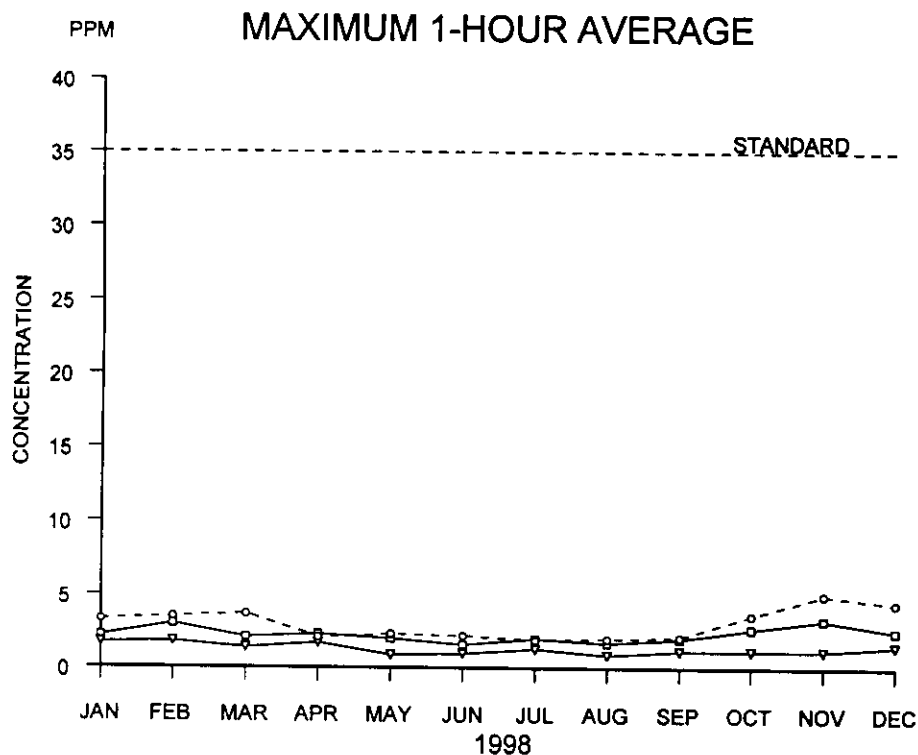
FEDERAL, STATE, AND COUNTY STANDARD:

PRIMARY: 0.12 PPM MAXIMUM 1-HOUR CONCENTRATION.

SECONDARY: SAME AS PRIMARY

1998

CARBON MONOXIDE



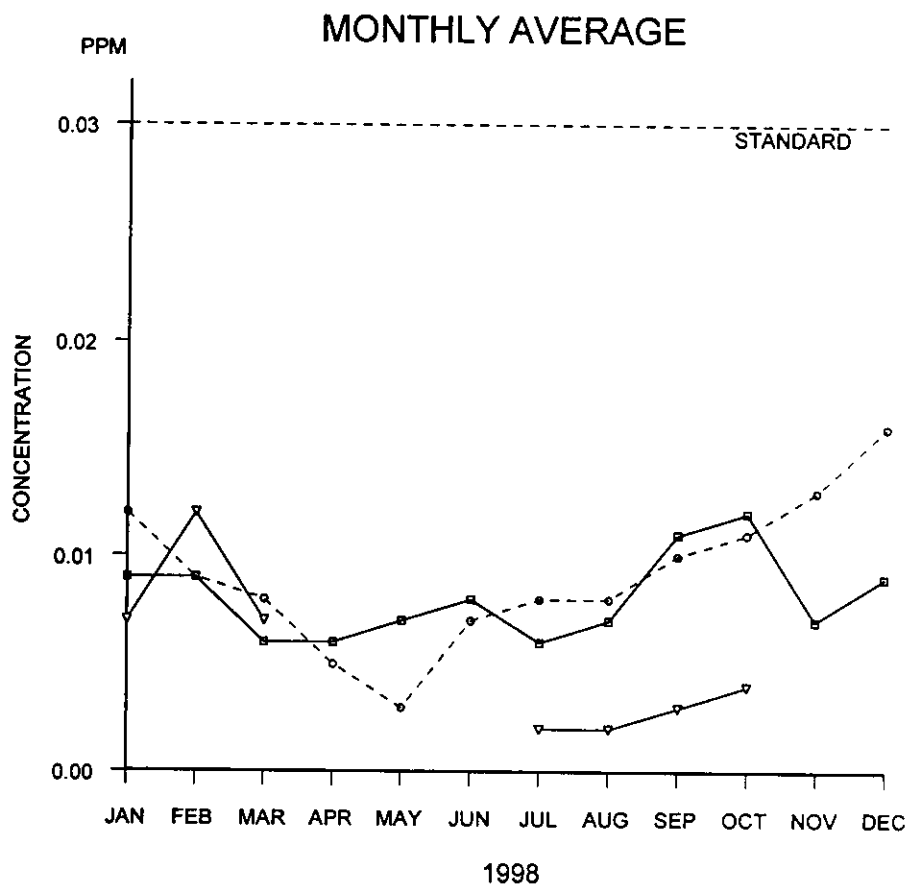
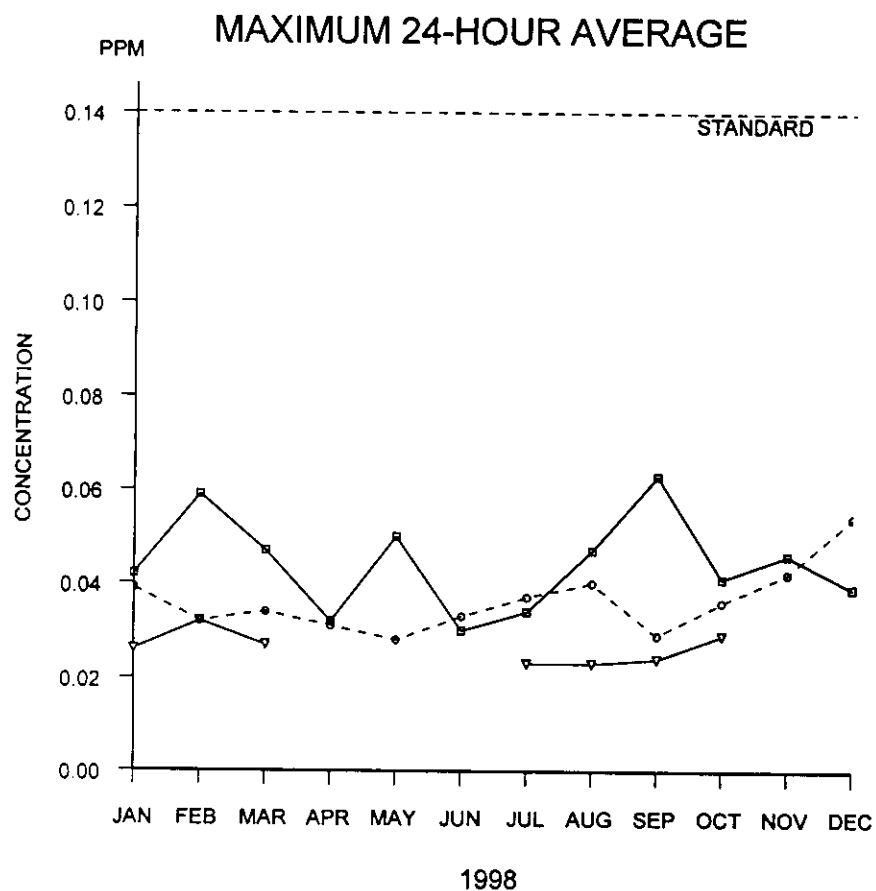
FEDERAL, STATE, AND COUNTY STANDARDS:

- PRIMARY: 1) 35 PPM MAXIMUM 1-HOUR CONCENTRATION,
NOT TO BE EXCEEDED MORE THAN ONCE PER YEAR.
- 2) 9 PPM MAXIMUM 8-HOUR CONCENTRATION,
NOT TO BE EXCEEDED MORE THAN ONCE PER YEAR.

SECONDARY: SAME AS PRIMARY.

—□— SEVEN CORNERS
—▽— CUBRUN
---○--- LEWINSVILLE

SULFUR DIOXIDE



—△— CUBRUN
 - - - ● - - - LEWINSVILLE
 —■— SEVEN

FEDERAL, STATE, AND COUNTY STANDARDS:

PRIMARY: 1) 0.03 PPM ANNUAL ARITHMETIC MEAN.

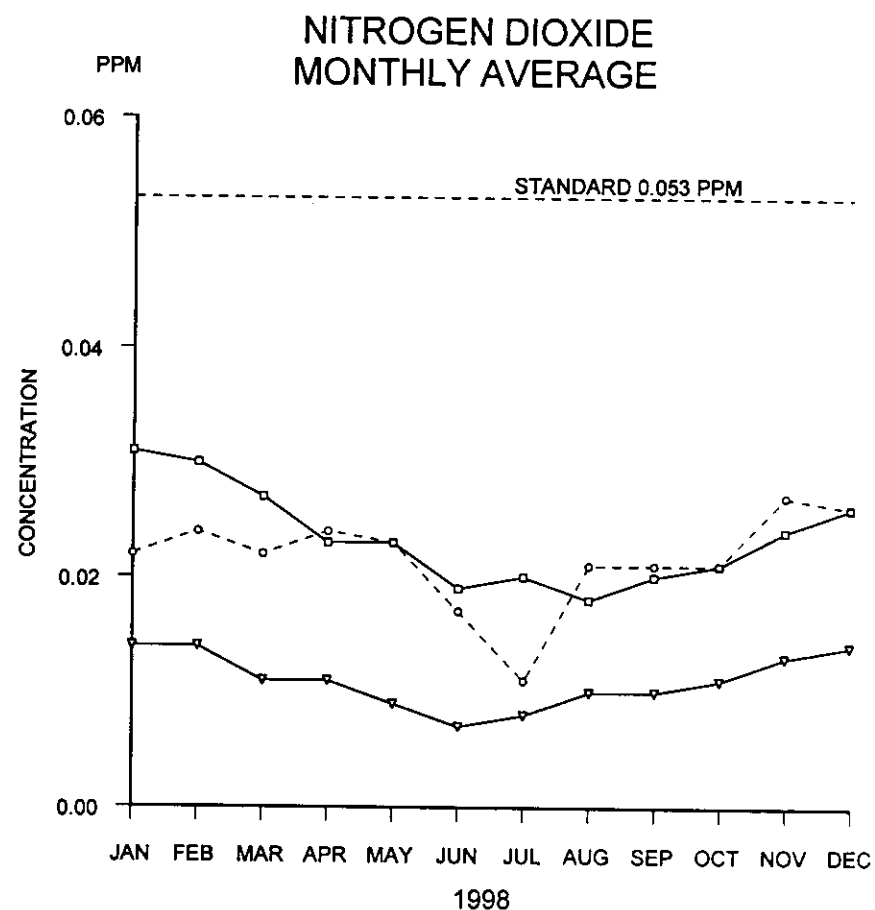
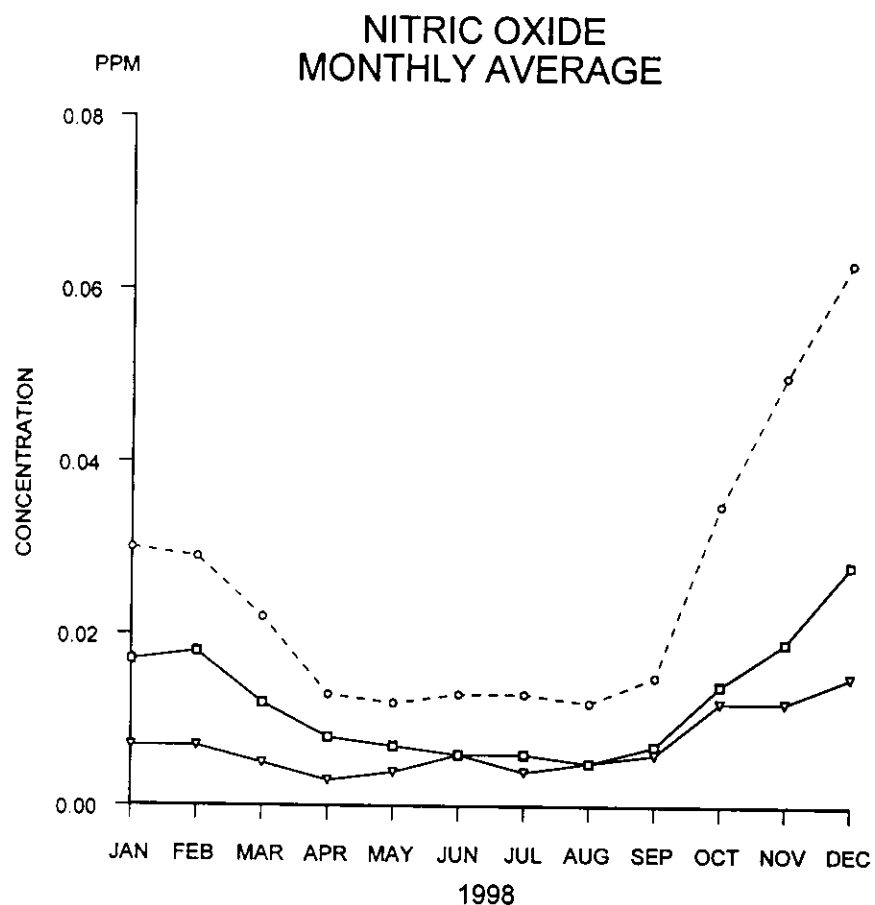
2) 0.14 PPM MAXIMUM 24-HOUR CONCENTRATION.

SECONDARY: 0.5 PPM MAXIMUM 3-HOUR CONCENTRATION,

NOT TO BE EXCEEDED MORE THAN ONCE PER YEAR.

* Not enough data collected at Cub Run site for April - June, and November and December.

OXIDES OF NITROGEN



FEDERAL, STATE, AND COUNTY STANDARDS:

NITROGEN DIOXIDE:

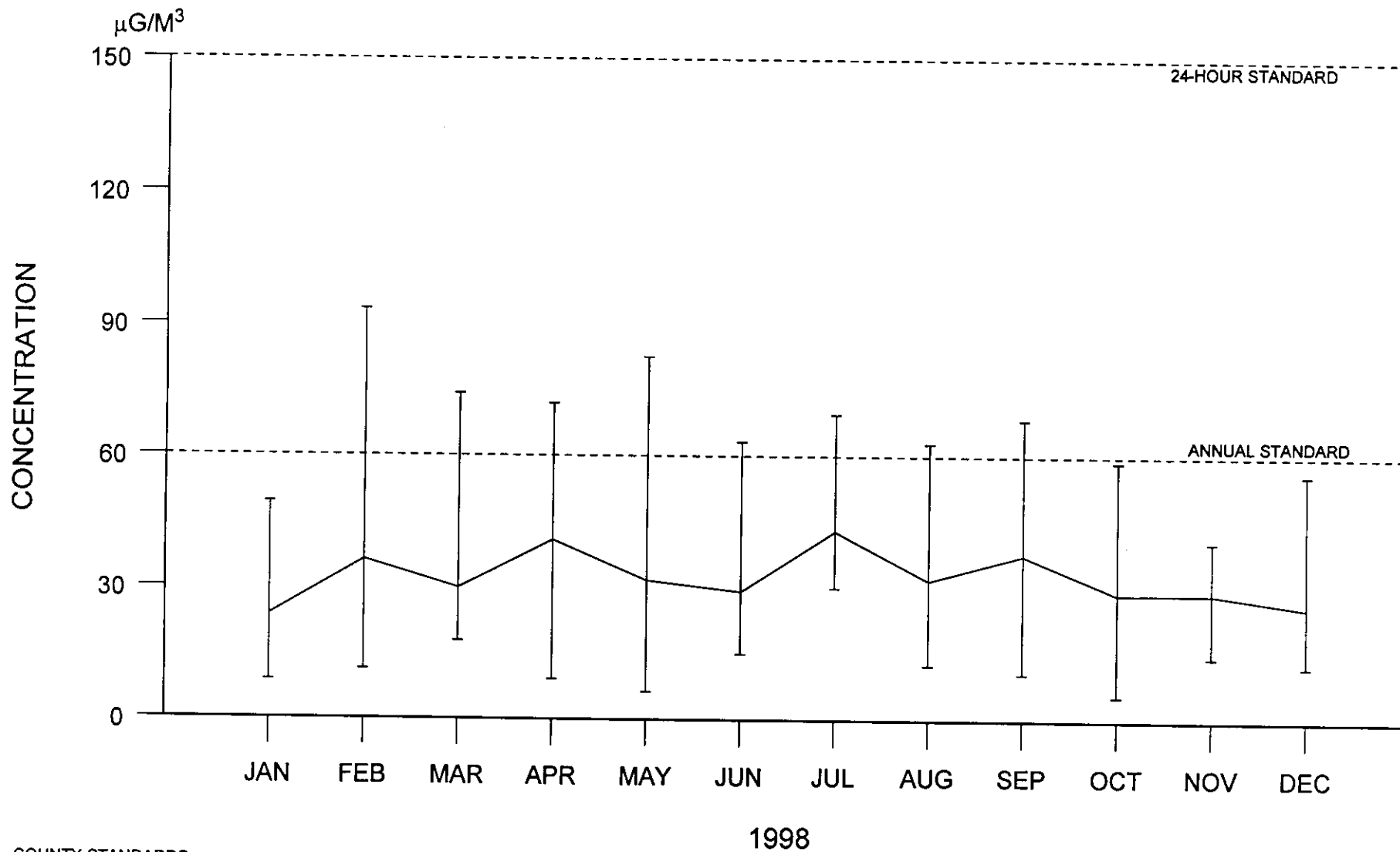
PRIMARY: 0.053 PPM ANNUAL ARITHMETIC MEAN.

SECONDARY: SAME AS PRIMARY

NITRIC OXIDE: NO STANDARD ESTABLISHED.

—○— SEVEN CORNERS
—□— CUBRUN
---◇--- LEWINSVILLE

TOTAL SUSPENDED PARTICULATES MONTHLY GEOMETRIC MEAN WITH MAXIMUM / MINIMUM 24-HOUR SAMPLES

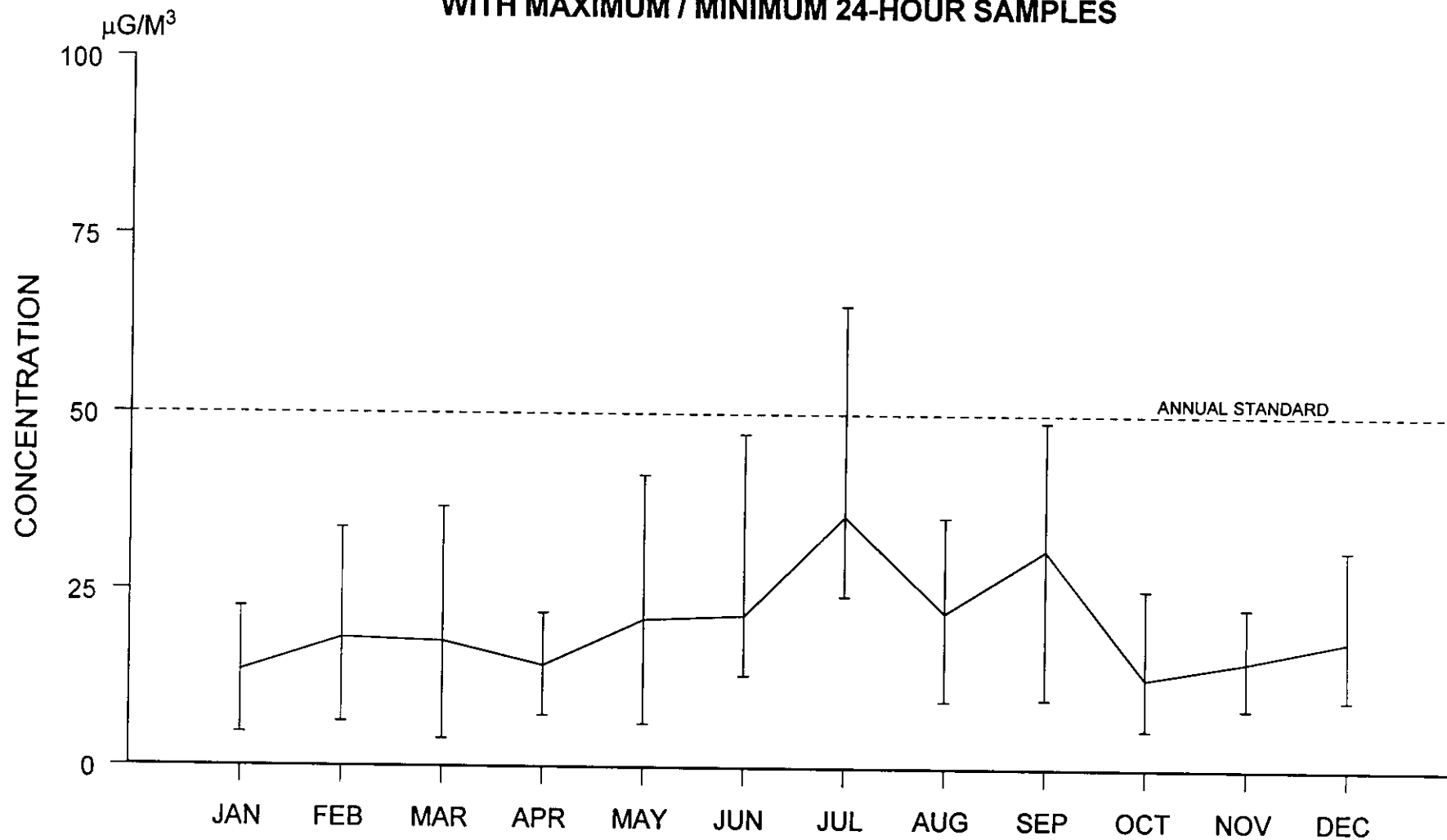


COUNTY STANDARDS:

60 $\mu\text{G}/\text{M}^3$ ANNUAL GEOMETRIC MEAN.

150 $\mu\text{G}/\text{M}^3$ MAXIMUM 24-HOUR CONCENTRATION, NOT TO BE EXCEEDED MORE THAN ONCE PER YEAR.

PARTICULATE MATTER PM₁₀ MONTHLY ARITHMETIC MEAN WITH MAXIMUM / MINIMUM 24-HOUR SAMPLES



FEDERAL, STATE, AND COUNTY STANDARDS:

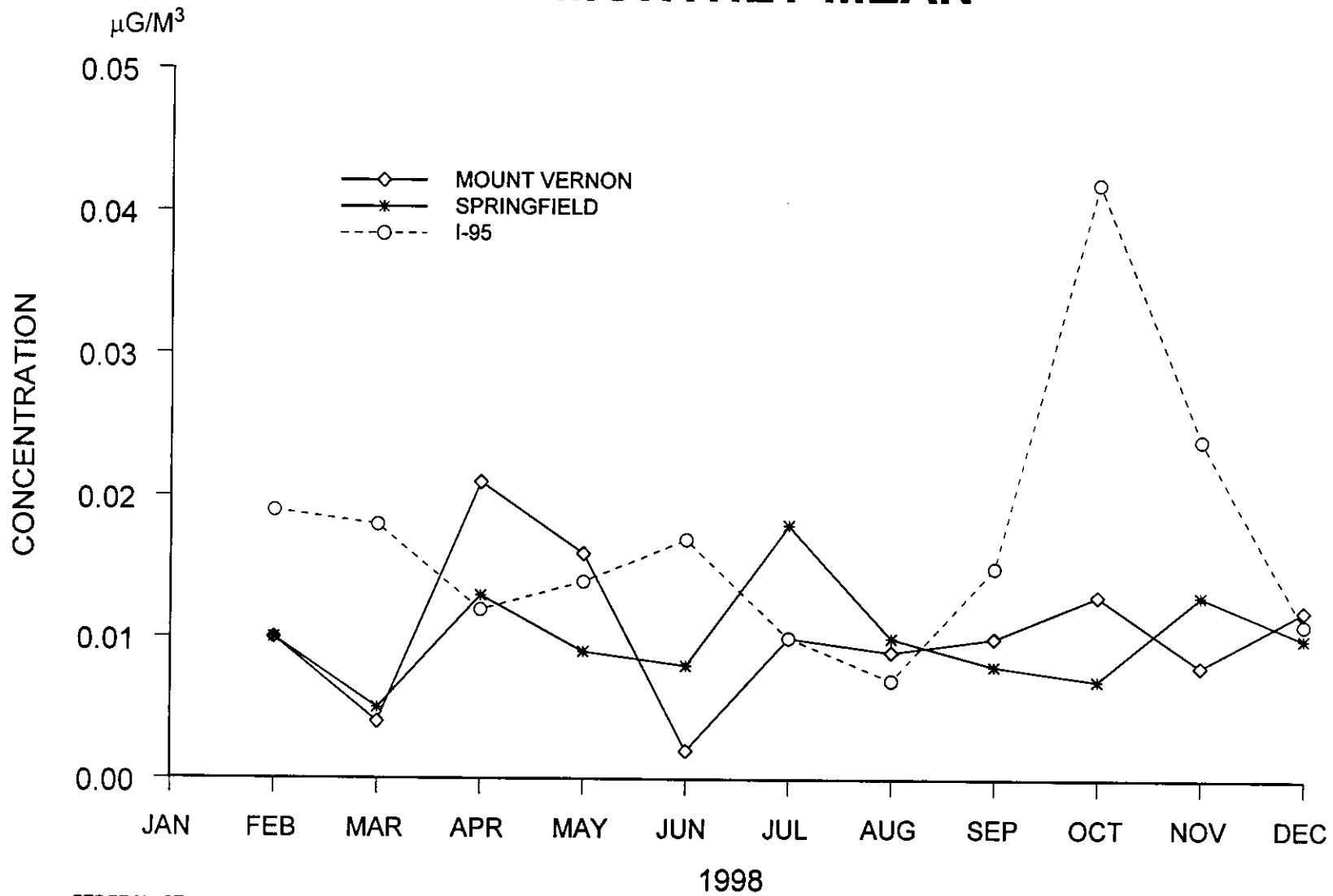
1998

PRIMARY: 50 μG/M³ ANNUAL ARITHMETIC MEAN, 3-YEAR AVERAGE OF ANNUAL VALUES
MUST BE LESS THAN OR EQUAL TO 50 μG/M³.

150 μG/M³ 24-HOUR CONCENTRATION, 3-YEAR AVERAGE OF THE 99th PERCENTILE
OF THE MONITORED CONCENTRATIONS AT THE HIGHEST MONITOR
IN AN AREA MUST BE LESS THAN OR EQUAL TO 150 μG/M³.

SECONDARY: SAME AS PRIMARY.

LEAD MONTHLY MEAN



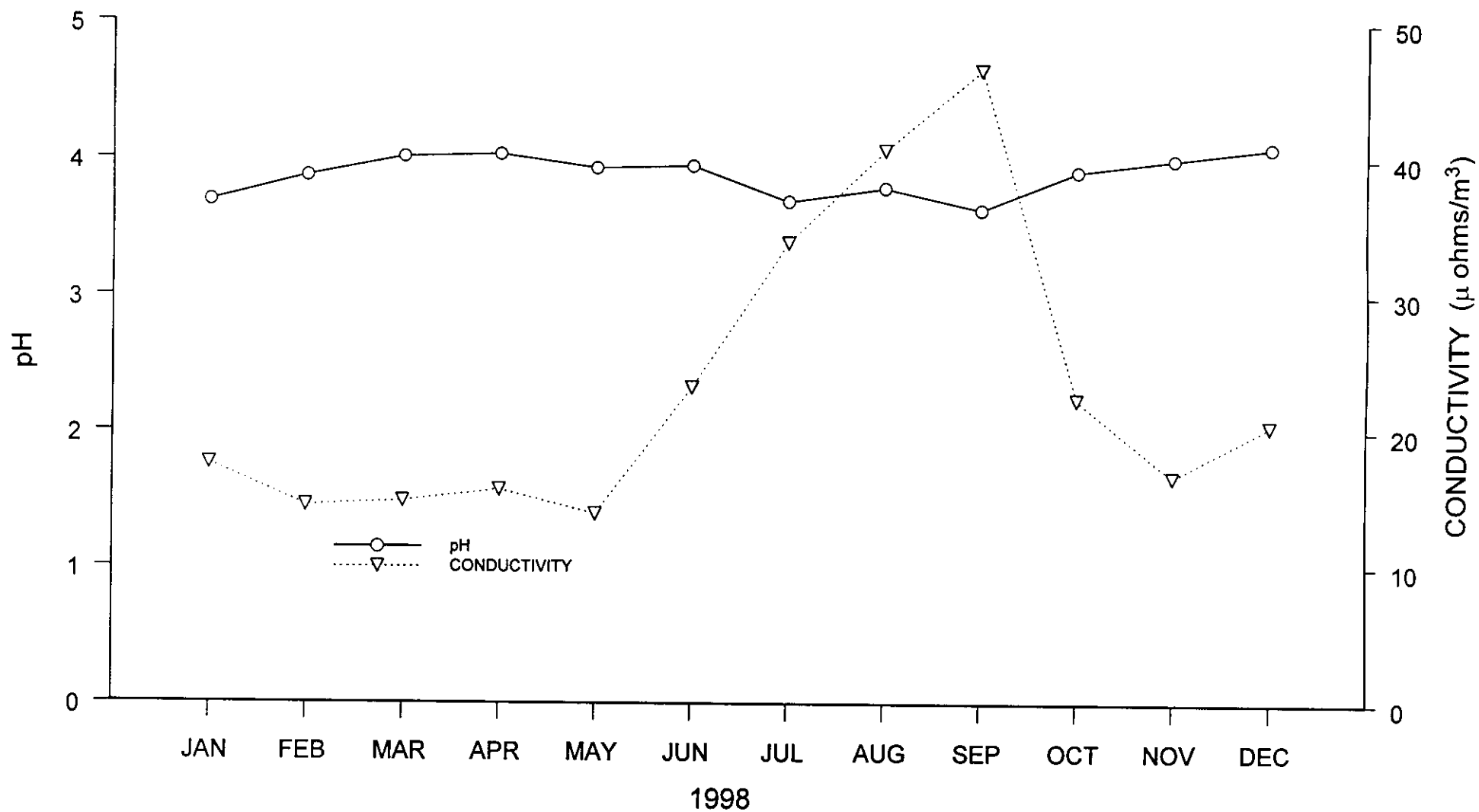
FEDERAL, STATE, AND COUNTY STANDARDS:

PRIMARY: $1.5 \mu\text{G}/\text{M}^3$ MAXIMUM ARITHMETIC MEAN

PER CALENDAR QUARTER.

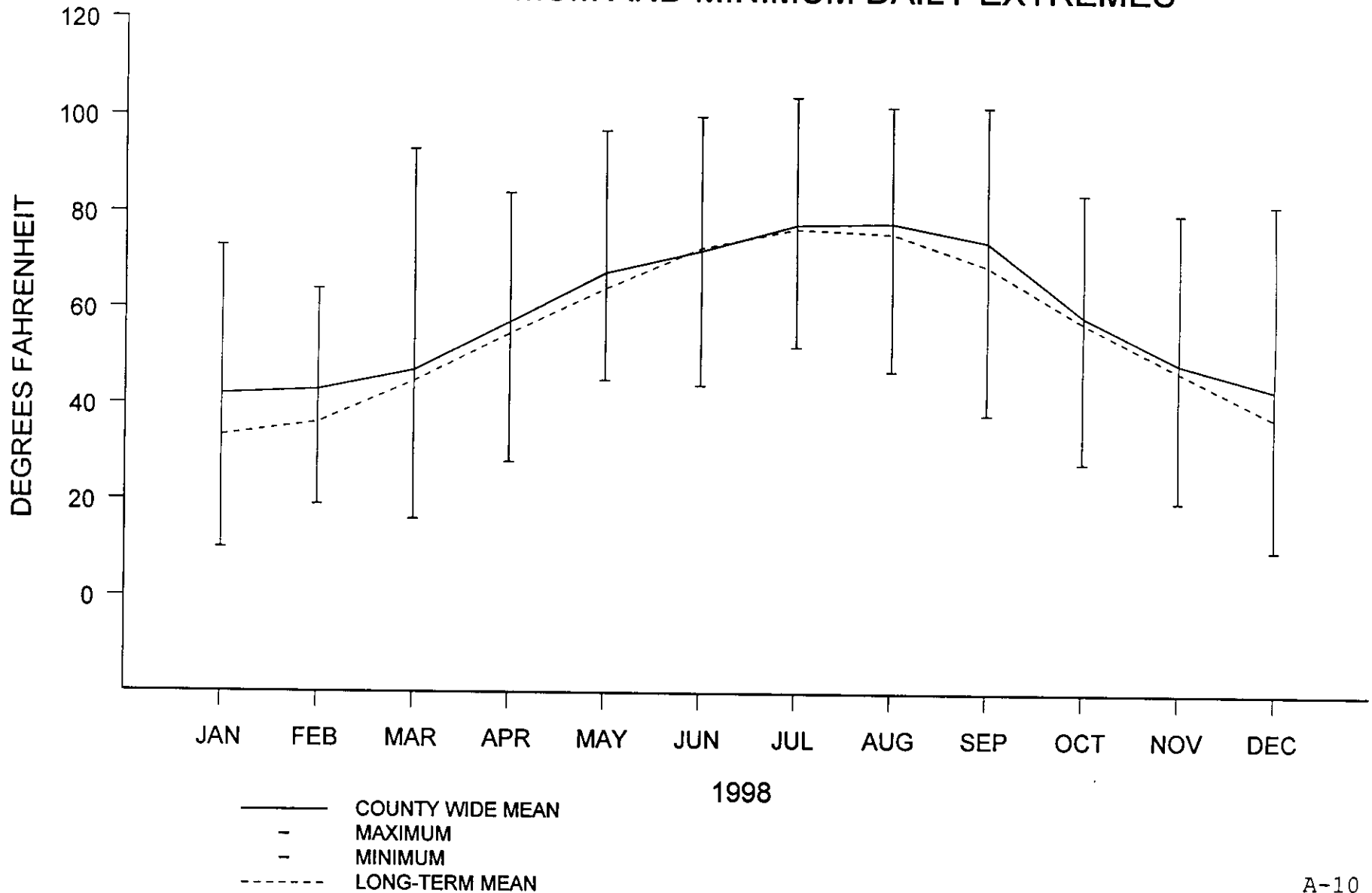
SECONDARY: SAME AS PRIMARY.

ACID DEPOSITION OCCOQUAN HILL



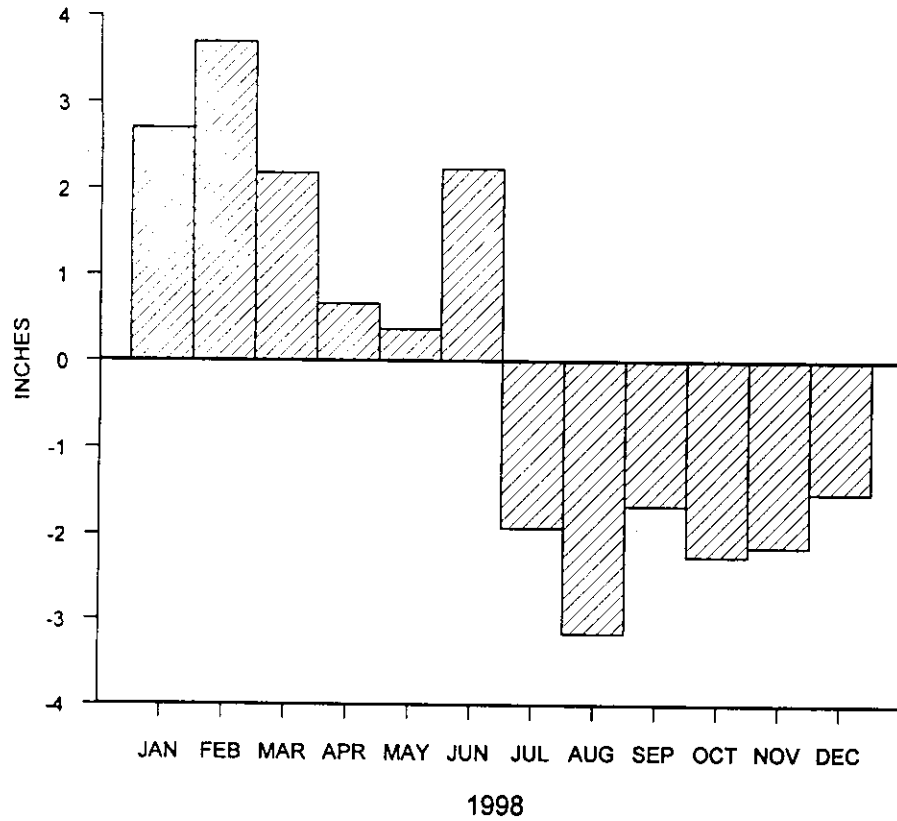
ph and Conductivity monthly values are volume weighted averages.

MONTHLY MEAN TEMPERATURE WITH MAXIMUM AND MINIMUM DAILY EXTREMES

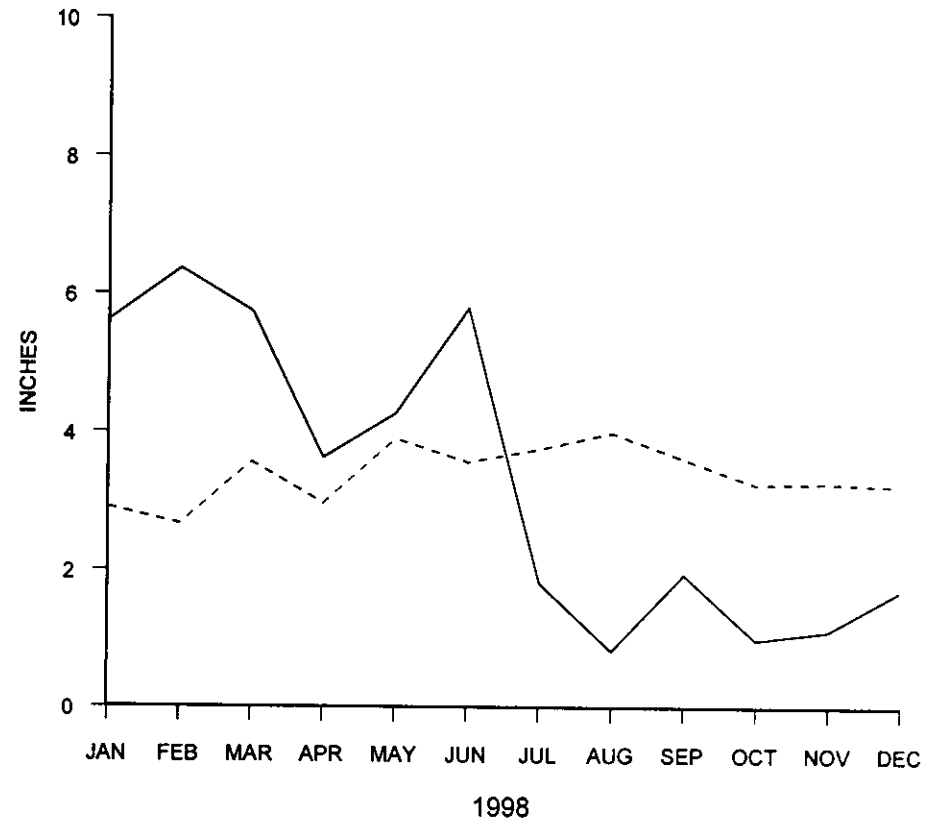


RAINFALL

DEPARTURE



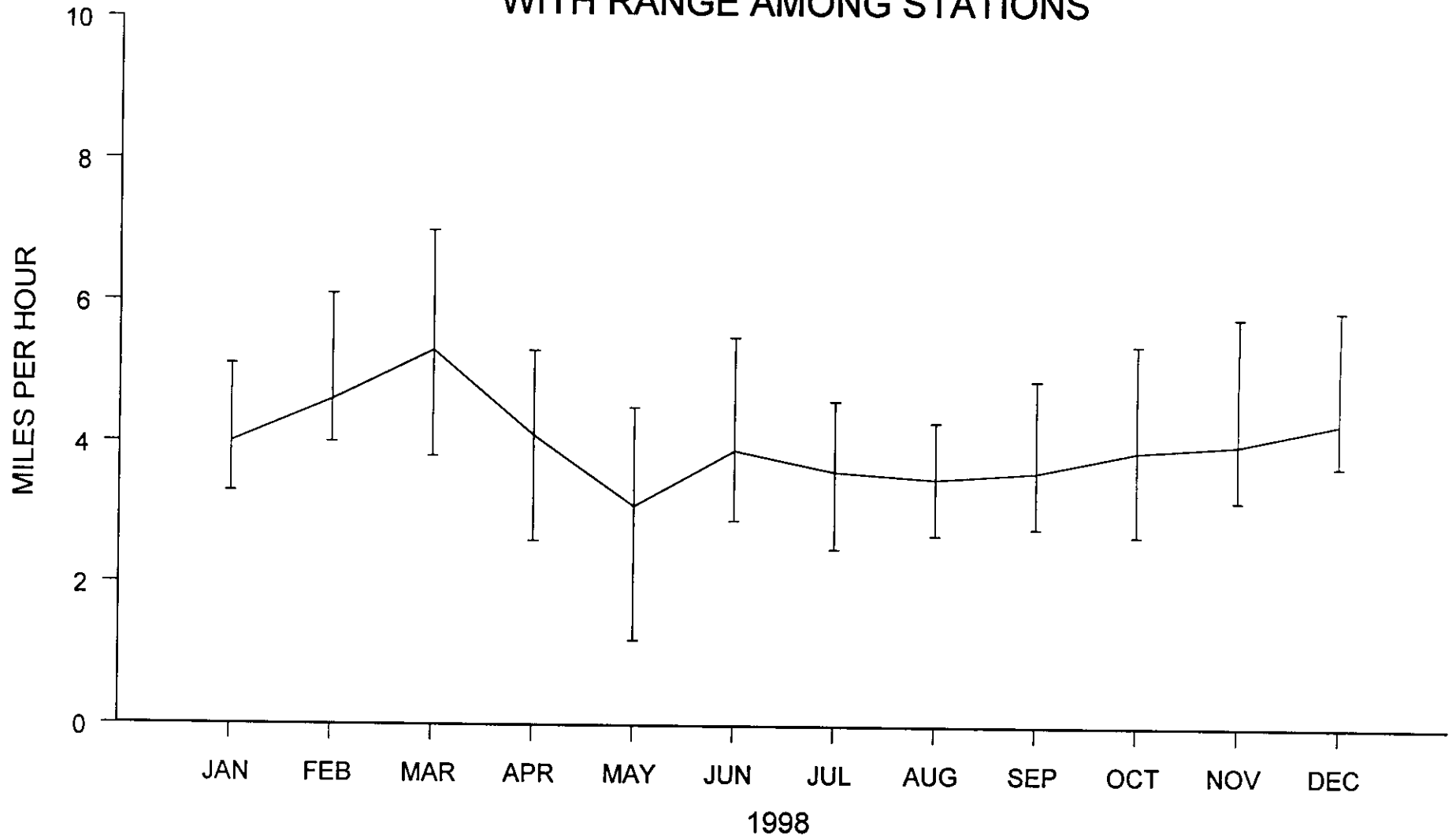
DEPTH



DEPARTURE: THE DIFFERENCE BETWEEN THE LONG TERM 3 AIRPORT AVERAGE AND THE AVERAGE OF THE OBSERVED AMOUNTS AT ALL STATIONS.

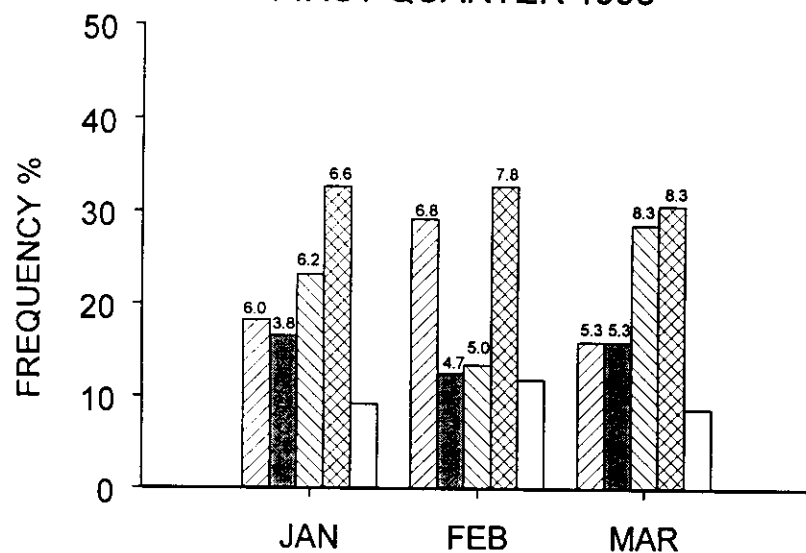
— MONTHLY MEAN
 - - - LONG TERM AVERAGE

COUNTY MONTHLY MEAN WIND SPEED WITH RANGE AMONG STATIONS

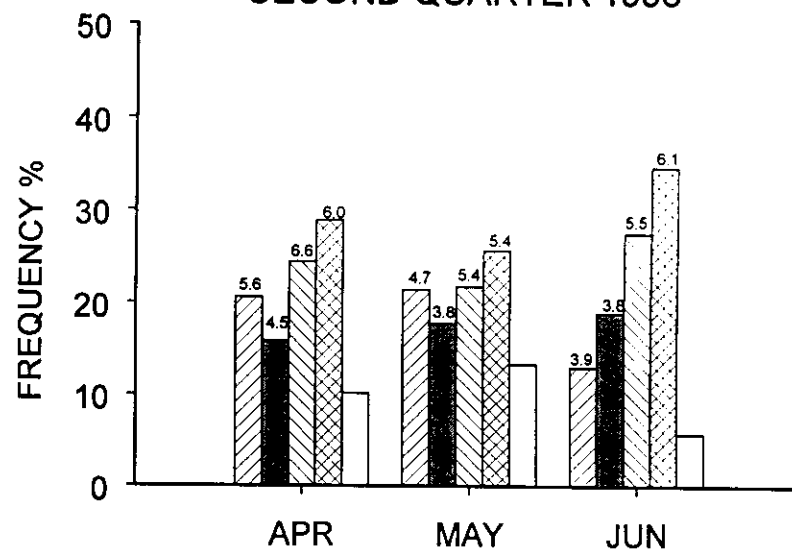


WIND SPEED AND DIRECTION

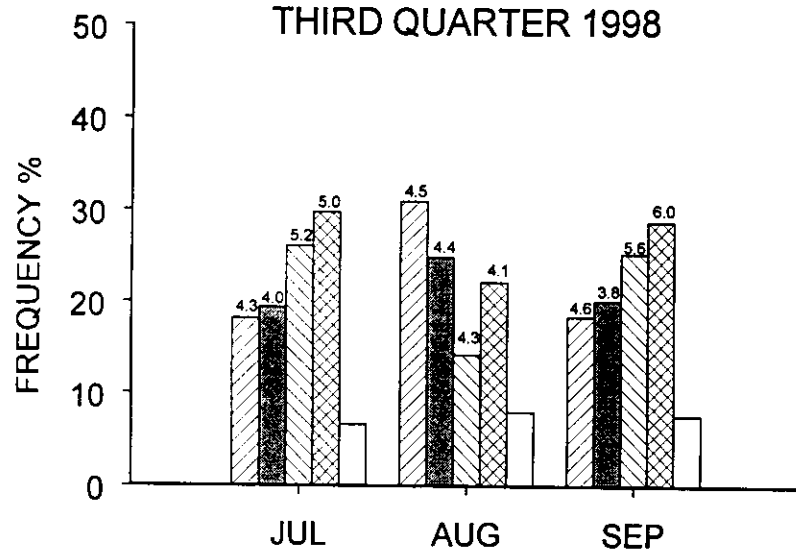
FIRST QUARTER 1998



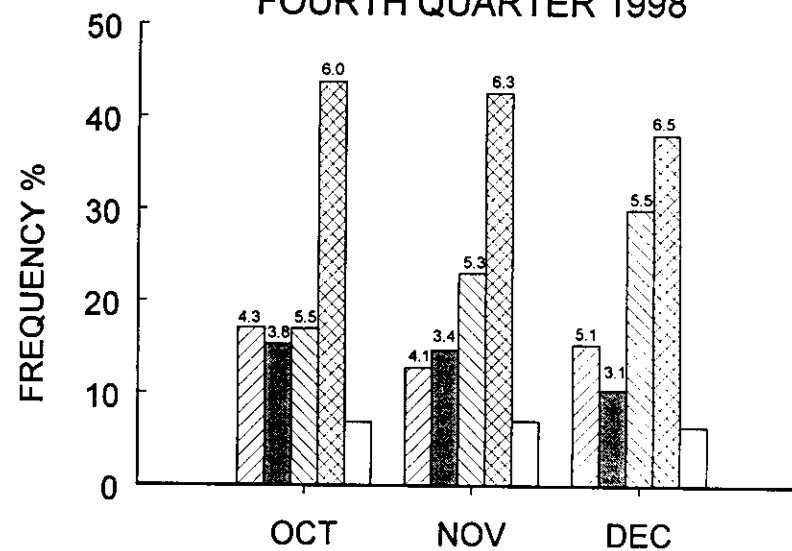
SECOND QUARTER 1998



THIRD QUARTER 1998



FOURTH QUARTER 1998



MONTHLY AVERAGE WIND SPEED FOR EACH QUADRANT
APPEARS ABOVE ITS RESPECTIVE BAR.

